



## DGNSS Systems Product Catalog

# PRODUCT CATALOG



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## C-Nav3050 Bundles

### **CNV92-310416-3001LF - C-Nav3050**

#### **GNSS Sensor Kit**

CNV92-310413-3002LF	1 x C-Nav3050 GNSS Sensor
NAV82-001020-3001LF	1 x GNSS Antenna, TNC
NAV94-310273-3006LF	1 x Y-Cable, USB Device & DB9S
NAV94-310272-3006LF	1 x Y-Cable, RJ45 Plug & DB9S
NAV88-310442-3001LF	2 x Sensor Mounting Brackets
3250005-0	1 x Antenna Mounting Adapter
WES534610	1 x Antenna Mounting Pole
6000001-XX	1 x CD-ROM, C-Nav applications
7CNG002-0	1 x USB Flash Drive
QVSCC2208-FF	1 x USB host-to-host adapter
CNV335G001-0	1 x RS232/422 Dual-data Adapter
NAV79-200304-0001	1 x Shipping Carton
CNV96-310033-3001	1 x Quick Start Guide

\*Customers must also select a software bundle, an electrical power option, and an antenna cable.

### **CNV92-310416-3091LF – C-Nav3050**

#### **GNSS Sensor Kit w/ C-NaviGator II CDU**

CNV92-310416-3001LF	1 x C-Nav3050 GNSS Sensor Kit
0CNG001-1	1 x C-NaviGator II CDU Bundle

### **NAV97-310041-3101 - Software Bundle A**

NAV97-310041-3121	1 x Enable C-Nav Corrections
NAV97-310041-3122	1 x GPS L1-only Navigation

### **NAV97-310041-3103 – Software Bundle G**

NAV97-310041-3121	1 x Enable C-Nav Corrections
NAV97-310041-3123	1 x GPS & GLONASS

### **CNV82-020007-3001LF – AC Power**

#### **Supply Kit**

NAV82-020007-3001LF	1 x AC/DC Power Adapter
4250011-110	1 x AC Power Cord, US
4250012-220	1 x AC Power Cord, Euro
4250013-240	1 x AC Power Cord, UK

## C-Nav3050 Parts and Accessories

### **Receiver**



### **CNV92-310413-3002LF**

#### **C-Nav3050 GNSS Sensor**

- ✓ 66-channel combined GPS/GNSS/L-band receiver
- ✓ Provides sub-meter precise point positioning accuracy worldwide between 72N and 72S.
- ✓ Small and lightweight for fast and hassle-free setup.

### **Antennas**



### **NAV82-001020-3001LF**

#### **GNSS/L-band Antenna**



### **NAV82-001022-3001LF**

#### **GNSS/L-band Airborne Antenna**



### **NAV82-001021-3001LF**

#### **RTK Base Antenna**

## Cables



**NAV94-310261-3012LF**

Antenna Cable

RG-58, TNC-TNC, 12'

*Refer to page 35 for the full selection of  
C-Nav Antenna Cables.  
Custom lengths available by request.*



**NAV94-310265-3006LF**

Data Cable

Positronic 9-pin Male to Ethernet RJ45  
Device, 6'



**NAV94-310273-3006LF**

Data Cable (Y-cable)

Positronic 9-Pin Male to USB 2.0 Device  
Plug & DB9S (RS-232/RS-422), 6 ft



**NAV94-310260-3006LF**

Data Cable

Positronic 9-pin Male to DB9S,  
RS232/422/1PPS, 6'



**NAV94-310272-3006LFB**

Data Cable (Y-cable)

Positronic 9-Pin Male to Ethernet RJ45 Plug  
& DB9S (RS-232/1PPS), 6 ft



**NAV94-310266-3006LF**

Data Cable

Positronic 9-Pin Male to USB 2.0 Device, 6'



**NAV94-310271-3006LF**

Data Cable

Positronic 9-Pin Male to USB 2.0 Host, 6'



**NAV94-310274-3010LF**

Power Cable

Positronic 9-Pin Female Unterminated, 10ft



**4000011-110**

Power Cord, IEC320-C7

110V, US, Shotgun Style Termination  
220V Euro & 240V UK also available

## Miscellaneous



**NEI1010CASE**  
Rugged Transportation Case



**3250005-0**  
Antenna Mounting Adaptor  
1"-14 UNS-2B to 5/8" BSW



**NAV88-310442-3001LF**  
Sensor Mounting Brackets



**WES534610**  
Antenna Mounting Pole



**NAV82-020007-3001LF**  
Power Adaptor, AC/DC, Positronic 9-Pin  
Female 110-220VAC, 12VDC, 1.50A



**QVS2208-FF**  
USB host-to-host receptacle adapter



**CNV335G001-0**  
RS232/422 Dual-data Adapter



**CNV335G002-0**  
1 PPS Adapter  
*For use with NAV94-310272-3006LFB*



(Front View)



(Rear View)

**CNV3050RACK**

19" Rackmount Plate

For use with C-Nav3050 GNSS Sensor.

Sensor not included. Dual model also available.

**C-Nav3050**

User Guide



**CNV96-310034-3001**

User Guide



**7CNG002-0**  
USB Thumb Drive



**6000001-XX**

C-Nav All-in-One Product CD

**CNV96-310033-3001**

Quick Start Guide (*not shown*)

**NAV97-200304-0001**

Shipping Carton (*not shown*)

## C-Nav1010 Bundles

### 011M001-0 - C-Nav1010M Bundle

NAV92-310367-3003	1 x C-Nav1010M Receiver
CNV82-001017-0001	1 x C-Nav1010 L1 / L-Band Ant.
NAV88-310408-3001	1 x C-Nav1010 Mounting Bracket
NAV94-310260-3006	1 x C-Nav1010 Serial Cable
6000001-XX	1 x Product CD
4101001-6	1 x C-Nav1010 Dual Data Cable
CNV96-310023-3001	1 x C-Nav1010 User Manual
NAV79-200303-0001	1 x C-Nav1010 Shipping Carton
NAV94-310262-3010	1 x C-Nav1010 Cable Assembly
NAV94-310262-3010	1 x C-Nav1010 Cable Assembly

### 011M002-0 - C-Nav1010M Bundle w/ C-NaviGator II CDU

011M001-0 -	1 x C-Nav1010M Bundle
0CNG001-1	1 x C-NaviGator II CDU Bundle (see page 19)

### 011R001-0 - C-Nav1010R Bundle

NAV92-310367-3004	1 x C-Nav1010R Receiver
4101001-6	1 x C-Nav1010 Dual Data Cable
6000001-XX	1 x Product CD
CNV82-001017-0001	1 x C-Nav1010 L1 / L-Band Antenna
CNV96-310023-3001	1 x C-Nav1010 User Manual
NAV79-200303-0001	1 x C-Nav1010 Shipping Carton
NAV88-310408-3001	1 x C-Nav1010 Mounting Bracket
NAV94-310260-3006	1 x C-Nav1010 Data Cable
NAV94-310262-3010	1 x C-Nav1010 Cable Assembly
NAV82-001018-0001	1 x C-Nav1010R L-Band Antenna

### 011R002-0 - C-Nav1010R Bundle w/ C-NaviGator II CDU

Consisting of:	
011R001-0 -	1 x C-Nav1010R Bundle
0CNG001-1	1 x C-NaviGator II CDU Bundle (see page 19)

## Receivers



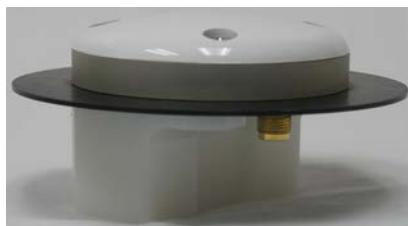
**NAV92-310367-3003LF**  
C-Nav1010M Receiver

This model utilizes a compact dual-band antenna capable of receiving GPS and C-Nav Corrections Service signals. This antenna provides excellent phase center stability in a small, robust, lightweight format.

It is equipped with additional features allowing interconnectivity with a variety of antennas and other instrumentation to suit specific applications and configurations.

## C-Nav1010 Parts and Accessories

### Antennas



**CNV82-001017-0001**  
L1 / L-band Antenna



**NAV82-001018-0001LF**  
L-band Antenna w/  
Mounting Adaptor  
*For use at Look Angle  
Elevations between 25°-  
45°, for use with R-model  
only*



**NAV82-001003-0001LF**  
L-band Antenna for use at  
High Latitudes *For use at  
Look Angle Elevations less  
than 25°, for use with R-  
model only*

## Cables



**4101001-6**  
Dual Data Cable  
9pin Positronic to DB9-DTE/DCE



**NAV94-310260-3006LF**  
Data Cable  
Positronic to DB9S, 6'



**NAV94-310262-3010LF**  
Cable Assembly  
Unterminated, Power Port, 1PPS, 10'

## Miscellaneous



**CNV82-030001-3003LF**  
Power Supply Kit  
AC/DC, 12VDC 1.5A

*Includes: Power Supply Unit (NAV82-030001-3003LF) and Power Cords for US (4250011-110), EURO (4250012-220) and UK (4250013-240)*



**NAV88-310408-3001LF**  
Mounting Brackets (2)



**NEI1010CASE**  
Ruggedized Transportation Case



**NAV79-200303-0001LF**  
Shipping Carton



**CNV96-310023-3001**  
User Guide



**6000001-XX**  
C-Nav All-in-One Product CD

## C-Nav1000 Bundles

### **0R4D001-0 - C-Nav1000 R4 DGPS Bundle**

CNV7000-109-140	1 x C-Nav1000 DGPS Receiver
SAA7000-108-035	1 x C-Nav1000 CDU
SAA7000-000-359	1 x C-Nav1000 MGL-4 Antenna
SAA7000-109-121	1 x J4N Junction Box
SAA7000-109-011	1 x C-Nav1000 Sensor Sig&Pwr Cable
SAA7000-108-133	1 x C-Nav1000 CDU Signal Cable
SAA7000-108-132	1 x C-Nav1000 CDU Power Cable
5R4G001-XX	1 x C-Nav1000 Installation Manual
5R4G002-XX	1 x C-Nav1000 Operation Manual

#### Receiver



**CNV7000-109-140**  
DGPS Receiver

#### Cables



**SAA7000-108-132**  
CDU Power Cable

#### C-Nav1000 Parts and Accessories

##### Antenna



**SAA7000-000-359**  
MGL-4 Antenna



**SAA7000-108-133**  
CDU Signal Cable

##### Controller



**SAA7000-108-035**  
Control and Display Unit



**SAA7000-109-011**  
Receiver Signal and Power Cable



**SAA7000-109-121**  
J4N Junction Box

### Miscellaneous



**SAA7000-108-110**  
Flush Mounting Kit

### Firmware Upgrades



**SAA7000-000-181**  
USB to RS-422 Adaptor

*image  
coming  
soon*

**SAA7000-100-179**  
Sensor Update Cable

*image  
coming  
soon*

**SAA7000-100-181**  
Display Update Cable

**C-Nav1000 GNSS RECEIVER**  
Installation Guide



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E-mail: [cnav.support@cnavgps.com](mailto:cnav.support@cnavgps.com)



**5R4G001-XX**  
Installation Guide

**C-Nav1000 GNSS RECEIVER**  
Operators Guide



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**5R4G002-XX**  
Operations Manual

## Performance Upgrades

*Note: Performance upgrades are available for C-Nav3050, C-Nav1010, C-Nav2050 and SF-2040 Receivers only.*

### **C-Nav3050 PVT and Raw Data Upgrades (<5Hz default output rate)**

- NAV97-310041-3181 - C-Nav3050 PVT and Raw Data (<10Hz)
- NAV97-310041-3182 - C-Nav3050 PVT and Raw Data (<25Hz)
- NAV97-310041-3183 - C-Nav3050 PVT and Raw Data (<50Hz)
- NAV97-310041-3184 - C-Nav3050 PVT and Raw Data (<100Hz)

### **C-Nav3050 RTK & 1PPS/Event Upgrades**

- NAV97-310041-3141 - C-Nav3050 RTK (including network RTK)
- NAV97-310041-3142 - C-Nav3050 RTK Extend\*
- NAV97-310041-3151 - C-Nav3050 1PPS/Event

### **PVT Update Rates (C-Nav2050, 1010 and SF-2040 only)**

- NAV97-310041-3010 - PVT Update Rate (< 5Hz)
- NAV97-310041-3001 - PVT Update Rate (<10Hz)
- NAV97-310041-3002 - PVT Update Rate (<25Hz)

### **Raw Data Update Rates (C-Nav2050, 1010 and SF-2040 only)**

- NAV97-310041-3011 - Raw Data Update Rate (< 5Hz)
- NAV97-310041-3003 - Raw Data Update Rate (<10Hz)
- NAV97-310041-3004 - Raw Data Update Rate (<25Hz)
- NAV97-310041-3005 - Raw Data Update Rate (<50Hz)

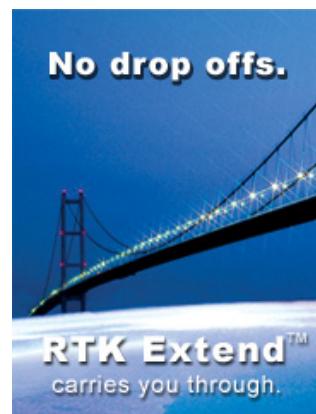
### **C-Nav 2050 / SF-2040 RTK Upgrades**

- NAV97-310041-3006 - C-Nav2050 / SF-2040 RTK (5Hz PVT)
- NAV97-310041-3009 - C-Nav2050 / SF-2040 RTK Extend\*

\* RTK Extend™ allows for continuous RTK positioning during radio outages by allowing C-Nav Corrections Service signals to take over when the RTK radio communication signal is blocked or out of range.

*Traditionally, when an RTK rover loses communication with the base station, it is unable to provide position updates for more than a few seconds, resulting in user down time and reduced productivity. With the revolution of RTK Extend™, centimeter-accurate positioning is maintained for up to 15 minutes during communication loss. RTK Extend™ allows users to work without costly interruptions and frees them to concentrate on the work instead of the tools.*

*With RTK Extend™, once the communication link is restored, the rover automatically and seamlessly switches back to the standard RTK solution. The break in communications and the seamless mode transitions of RTK Extend™ will be transparent to the user with the exception of a mode flag indicating that the receiver is operating in the C-Nav-aided RTK Extend™ rather than standard RTK. RTK Extend™ is a software option available with all C-Nav receivers enabled with RTK.*





## C-NaviGator Control and Display Unit Bundles

### **OCNG001-1 - C-NaviGator II CDU Bundle (Touchscreen)**

Consisting of:

7CNG001-2	1 x C-NaviGator II CDU
SYN9NA0600723	1 x C-NaviGator II PSU
7CNG002-0	1 x C-NaviGator USB Memory Stick
5CNG001-XX	1 x C-Navigator User Manual
4000001-110	1 x Cord, Power, IEC320-C13 (US)
4000002-220	1 x Cord, Power, IEC320-C13 (EURO)
4000003-240	1 x Cord, Power, IEC320-C13 (UK)

## C-NaviGator CDU Parts and Accessories

### Control and Display Unit



**7CNG001-2**  
C-NaviGator II CDU  
Touchscreen, USB on front



**4000002-220**  
Power Cord, IEC320-C13  
EURO, Standard Computer Type



**4000003-240**  
Power Cord, IEC320-C13  
UK, Standard Computer Type

### Cables



**4000001-110**  
Power Cord, IEC320-C13  
US, Standard Computer Type



**SYN9NA0600723**  
Power Supply, AC/DC  
100-240VAC, 12VDC, 5A

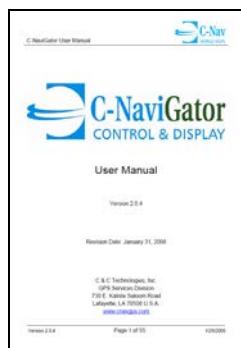
### Miscellaneous



**7CNG002-0**  
USB Thumb Drive



**3GTR004-0**  
Rugged Transportation Case



**5CNG001-XX**  
User Manual



**LTWAD-02BFFA-LL7001**  
Replacement Power Connector

### Mounting Hardware



**SYNIWO-6710-7CRBR2**  
Front Mounting Kit



**SYNIWO-6710-7CRBR9**  
19" Rack Mount



**CHIFSB018BLK**  
Flat Screen Table Stand



**PEEST630**  
Tilting VESA Wall Mount



**RAM-RPR-WASHS2**  
VESA Mount Washers  
Use with RAM-D-246U-IN1



**RAM-D-111B-IN1U**  
RAM Mount, 11" X 3" Base



**RAM-D-230U**  
RAM Double Ball Adapter



**RAM-D-201U-C**  
RAM Double Socket Arm, Short



**RAM-D-202U-IN1**  
RAM 3.68" Diameter Base



**RAM-D-201U**  
RAM Double Socket Arm, Medium



**RAM-D-246U-IN1**  
RAM 100/75 VESA Base



**RAM-D-201U-E**  
RAM Double Socket Arm, Long



## MBX-4 Beacon Kit

### **CNV940-1010-000 - MBX-4 Kit w/ MA40 Antenna**

Consisting of:

HEM801-3012-000 1 x MBX-4 Beacon Receiver  
 HEM804-3029-000 1 x MA40 Antenna, GPS L1 & Bcn  
 HEM050-0007-005 1 x Cable, Antenna, TNC-BNC, 5m  
 HEM054-0009-000 1 x Cable, Power, 3m, Unterm  
 HEM725-0007-015 1 x Antenna Magnetic Mount  
 HEM050-0011-022 1 x Cable, RS-232, 3m  
 HEM600-1021-000 1 x Survey Adapter, 1" - 5/8"  
 HEM875-0188-000 1 x MBX-4 User Manual  
 HEM602-1004-000 1 x Mounting Bracket for MBX  
 RFIRFT-1230 1 x Adapter, Coax, TNC-f to BNC-m

## MBX-4 Parts and Accessories

### Receiver



**HEM801-3012-000**  
MBX-4 Beacon Receiver

### Antenna



**HEM804-3029-000**  
MA40 Antenna, GPS L1 & Beacon  
*Formerly MGL-4, MBA-3A*

### Cables



**HEM050-0007-005**  
Antenna Cable, TNC-BNC, 5m



**HEM054-0009-000**  
Power Cable, Unterminated, 3m



**HEM050-0011-022**  
Data Cable, DB9, 3m

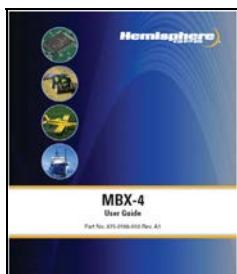
## Miscellaneous



**HEM725-0007-015**  
Magnetic Antenna Mount



**HEM600-1021-000**  
Survey Adapter, 1" - 5/8"



**HEM875-0188-000**  
User Manual



**HEM602-1004-000**  
Mounting Bracket



**LTWAD-02BFFA-LL7001**  
Replacement Power Connector  
For use with MBX-4 Beacon Receiver

## A100 GPS Smart Antenna Kit\*

### Antenna



**HEM804-0032-00A**  
A100 GPS Smart Antenna  
*and*  
**HEM720-0033-00A**  
Antenna Mounting Kit

### Cables



**HEM051-0129-002**  
Power/Data Cable, Single DB9S, 3m

**HEM051-0130-003**  
Power/Data Cable, Dual DB9S, 3m

**HEM051-0168-000**  
Power/Data Cable, Unterminated, 15m

## Miscellaneous



**HEM600-1175-000**  
Threaded Antenna Adapter, 5/8" - 5/8"

\*Power/Data Cable not included

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V100 GPS Smart Antenna Kit



**HEM940-3023-000**  
V100 Smart Antenna GPS Kit

*Includes:*

- V100 GPS Receiver.*
- Mounting Kit and User Guide.*
- Power Cable not included.*

V110 GPS/Beacon Smart Antenna Kit



**HEM940-3026-000**  
V110 Smart Antenna GPS/Beacon Kit

*Includes:*

- V110 GPS/Beacon Receiver.*
- Mounting Kit and User Guide.*
- Power Cable not included.*

**Cables**



- HEM051-0158-001**  
Power/Data Cable, Untermminated, 30m
- HEM051-0157-002**  
Power/Data Cable, Untermminated, 15m
- HEM051-0171-000**  
Power/Data/PPS Cable, Untermminated, 30m

## VS100 Heading Receiver (GPS) Kit



**HEM940-3034-000**  
VS100 Heading Receiver GPS Kit

### *Includes:*

- VS100 Heading Receiver.*
- A20 GPS Antenna (x2).*
- Antenna & Receiver Mounting Kits.*
- 3m RS-232 Cable (x2).*
- 10m TNC-TNC Antenna Cable (x2).*
- User Guide.*

## VS110 Heading Receiver (GPS/Beacon) Kit



**HEM940-3027-000**  
VS110 Heading Receiver (GPS/Beacon) Kit

### *Includes:*

- VS110 Heading Receiver.*
- A20 GPS Antenna.*
- A30 GPS/Beacon Antenna.*
- Antenna & Receiver Mounting Kits.*
- 3m RS-232 Cable (x2).*
- 10m TNC-TNC Antenna Cable (x2).*
- User Guide.*



## Surveyor/Surveyor+ Data Collectors and Accessories



**CAR6000.900.000**  
 Surveyor Data Collector  
 520MHz, 64MB, US model w/ Bluetooth

**CAR6000.950.000**  
 Surveyor Data Collector  
 64MHz, 512MB, US model w/ SurvCE Basic

**CAR6000.953.000**  
 Surveyor Data Collector  
 64/512, US model w/ SurvCE GPS



**CAR6000.901.000**  
 Surveyor+ Data Collector  
 624MHz, 128MB, US model w/ Bluetooth

**CAR6000.902.000**  
 Surveyor+ Data Collector  
 624MHz, 128MB, Intl. model w/ Bluetooth

**CAR6000.951.000**  
 Surveyor+ Data Collector  
 128MHz, 1G, US model w/ SurvCE Basic

**CAR6000.952.000**  
 Surveyor+ Data Collector  
 128MHz, 1G, Intl. model w/ SurvCE Basic

**CAR6000.954.000**  
 Surveyor+ Data Collector  
 128MHz, 1G, US model w/ SurvCE GPS

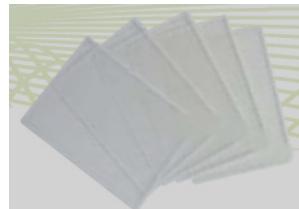
**CAR6000.955.000**  
 Surveyor+ Data Collector  
 128MHz, 1G, Intl. Model w/ SurvCE GPS



**CAR6100.210.000**  
Cigarette Lighter Power Adaptor



**CAR6100.607.000**  
Touchscreen Stylus (one only)



**CAR6100.608.000**  
Premium Screen Protectors (2)  
[Explorer/Explorer II Data Collectors and Accessories](#)



**CAR6100.217.000**  
Li-Ion Battery Pack

*image  
coming  
soon*

**CAR6100.599.000**  
Surveyor Intl. Charger Adapters Kit

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coming  
soon*

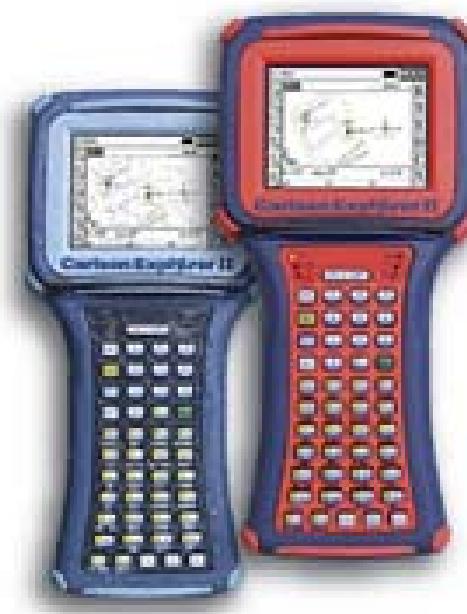
**CAR6100.601.000**  
Wall Charger (US model)

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**CAR6100.602.000**  
Wall Charger (Intl. model w/ Adaptors)

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soon*

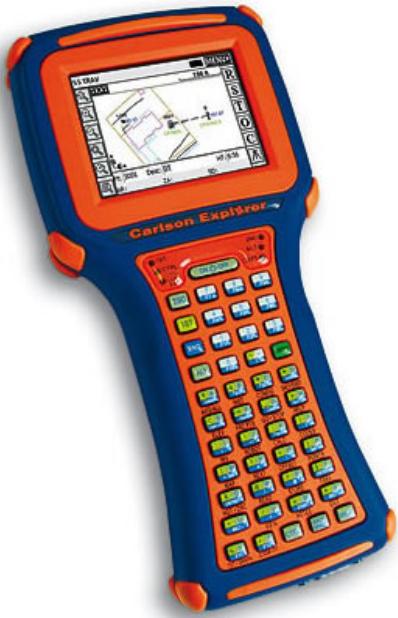
**CAR6100.603.000**  
Travel Charger (w/ Car Adapter)



**CAR60001.002.000**  
Explorer II Data Collector  
Orange, w/ Cap, w/o Software

**CAR60001.003.000**  
Explorer II Data Collector  
Blue, w/ Cap, w/o Software

**CAR60001.006.000**  
Explorer II Data Collector  
Blue, w/ Cap, w/Bluetooth, w/o Software



**CAR60001.001.000**  
Explorer Data Collector  
w/ Cap, w/o Software

**CAR60001.050.000**  
Explorer Data Collector  
w/ Cap, w/ SurvCE Basic



**CAR6100.016.000**  
International Adaptor, Australia

**CAR6100.017.000**  
International Adaptor, Europe

**CAR6100.021.000**  
International Adaptor, World

**CAR6100.022.000**  
International Adaptor, UK



**CAR6100.002.000**  
Vehicle Charger



**CAR6100.014.000**  
Wall Charger



**CAR6100.019.000**  
4-Bay Battery Charger Kit



**CAR6100.020.000**  
1-Bay Battery Charger



**CAR6100.003.000**  
Carrying Bag



**CAR6100.001.000**  
Battery Pack



**CAR6100.005.000**  
Environmental Case w/Strap



**CAR6100.010.000**  
Screen Protectors (5)



**CAR6100.004.000**  
Data Max Bracket/Clamp System

**CAR6100.522.000**  
Washable Screen Protectors (2)

image  
coming  
soon

**CAR6100.007.000**  
9-Pin Null-modem Cable

image  
coming  
soon

**CAR6100.024.000**  
USB Type A to Mini B



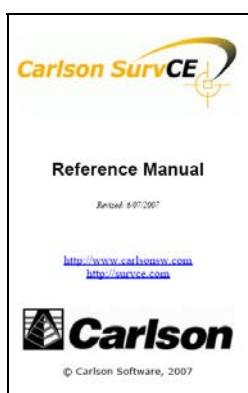
**CAR6100.013.000**  
Touchscreen Stylus, Black (3)

**CAR6100.435.000**  
Touchscreen Stylus, Orange (3)

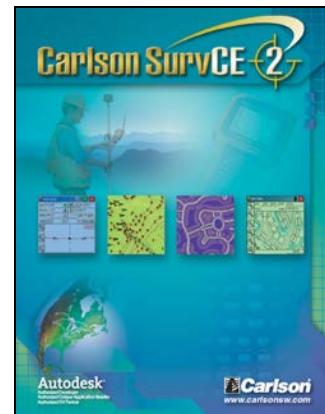


**CAR6100.018.000**  
International Power Supply

## Carlson Software



**CAR9200.002.000**  
Carlson SurvCE Manual



**CAR6501.001.000**  
SurvCE 2.5 Basic (TS)

### Available Add-on Modules:

**CAR6501.002.000**  
SurvCE 2.5 Robotic TS Module  
*For use with Carlson SurvCE Basic*

**CAR6501.003.000**  
SurvCE 2.5 GPS Module  
*Functions Without  
Carlson SurvCE Basic*

**CAR6501.004.000**  
SurvCE 2.5 Complete  
*Includes TS, GPS and Robotic TS  
Capabilities*



## Pacific Crest Positioning Data Links

### **PACPDLBASE – PDL High Power Base Kit**

Consisting of:

- PACA02535 1 x PDL High Power Base
- PACC02549 1 x Antenna, 450-470, 0db
- PACA00911 1 x Antenna Mount w/ 8' cable
- PACA01692 1 x GPS Interface cable (Base)
- PACA00470 1 x Prog. Cable PDLHP to PC
- PACA00978 1 x Tripod Antenna Mast and Bag
- PACA00399 1 x Battery, Cables, Carrying Case
- PACA01509 1 x Battery Charger
- PACF00510 1 x PDL Base Carrying Case
- PACM00555 1 x Users Manual & SW on CD



**PACA02535**  
PDL High Power Base



**PACC02549**  
Unity Gain Elevated Feed Antenna



**MAXMFB4605**  
Base, Fibreglass, Omni  
460-470MHz, 5dB  
Use w/ MAXMMK4 Antenna Mount



**PACA01692**  
GPS Interface cable, Navcom



**PACA00470**  
Programming Cable, Base to PC



**PACA02067**  
Base Universal AC Adaptor Kit



**PACA00399**  
Battery, Cables, Carrying Case



**PACA00846**  
Desktop HPB Power Supply  
100-240VAC to 12VDC, 10A



**PACA01509**  
Battery Charger



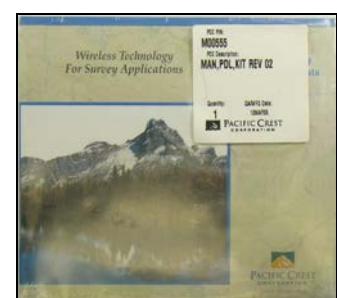
**PACA00911**  
Antenna Mount



**PACF00510**  
PDL Base Carrying Case



**PACA00978**  
Tripod, Antenna Mount and Bag



**PACM00555**  
Users Manual & Software

### **PACPDLRVRE – PDL Rover Kit**

Consisting of:

- PACA01005 1 x Charger for Internal Battery
- PACA01290 1 x Prog. Cable PDL Rover to PC
- PACA01339 1 x PDLRVR (450-470, 0W, 25 kHz)
- PACA01690 1 x GPS Int. cable (Rover/Navcom)
- PACC02549 1 x Unity Gain Elevated Feed Antenna
- PACM00555 1 x Users Manual & SW on CD



**PACA01339**  
PDL Rover  
450-470, 0W, 25 kHz



**PACA01290**  
Programming Cable, Rover to PC



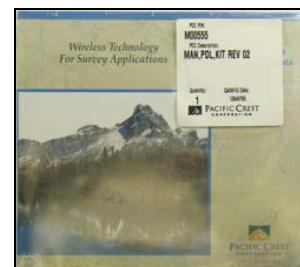
**PACC02549**  
Unity Gain Elevated Feed Antenna



**PACA01005**  
Charger for Internal Battery



**PACA01690**  
GPS Interface cable, Navcom  
*Also available in custom sizes*



**PACM00555**  
Users Manual & Software

*image  
coming  
soon*

**PACA02244**  
Rover Universal AC Adaptor Kit

**SECO**



**SEC2010-00**  
Tribrach Adapter, Fixed



**SEC5200-150**  
Pole Clamp, 1/4", Claw



**SEC2020-00**  
Tribrach Adapter, Rotating



**SEC2152-03-BLK**  
Tribrach w/ Optical Plummet



**SEC5203-10-BLK**  
Tripod, Dual lock, Fiberglass



**SEC5128-00**  
Carbon Fiber Rover Rod



**SEC5200-062**  
Cradle Assembly for  
Surveyor+ Data Collector

**SEC8125-00-ORG**  
Backpack, GIS

## Coaxial Equipment

### Coaxial Cable



**4000100-2 (2')**  
**4000100-50 (50')**  
**4000100-100 (100')**  
**4000100-150 (150')**

LMR-400 Cable, TNC-male connectors  
*Custom lengths available*

**TMW400-500FT**  
 LMR-400 Cable, 500' Spool

### Coaxial Connectors (LMR-400)



**APH82-340-1052**  
 N-male, Crimp



**TMWTC-400-MUHF**  
 Mini-UHF-male, Crimp



**RFIRFT-1202-I**  
 TNC-male, Crimp



**APH82-63**  
 N-female, Clamp



**TC-400-TM**  
 TNC-male, Crimp



**RFIRFT-1201-SI**  
 TNC-male, Clamp



**APH82-8SP-RFX**  
 UHF-male, Crimp



**TMWEZ-400-TM**  
 TNC-male, Crimp, EZ  
 Type



**RFIRFN-1024-1SI**  
 N-female, Clamp

---

## Coaxial Adaptors



**RFIRFB-1134**  
BNC-female to BNC-female



**RFIRFT-1225**  
TNC-female to TNC-female



**RFIRFN-1038-1**  
N-female to BNC-male



**RFIRFT-1231**  
BNC-female to TNC-male



**RFIRFT-1227**  
TNC-female to TNC-male



**RFIRFT-1234**  
N-female to TNC-male



**RFIRFN-1037-1**  
BNC-female to N-male



**RFIRFT-1233**  
TNC-female to N-male



**RFIRFN-1013-1**  
N-female to N-female



**RFIRFT-1230**  
TNC-female to BNC-male



**RFIRFT-1239**  
TNC-female to N-female



**RFIRFN-1014-1**  
N-male to N-male

## In-Line RF Amplifiers



**GPNWLA30RPDCTNC**

L1/L2, 30dB w/ Weatherproofing.  
TNC-female connectors.

Available with N connectors upon request



**RAVLA-21-1575-100-N**

L1-only, 20dB, N-female connectors

**RAVLA-12-L1L2-T**

L1/L2, 12dB, TNC-female connectors

**RAVLA-12-L1L2-N**

L1/L2, 12dB, N-female connectors

**RAVLA-21-L1L2-T**

L1/L2, 20 dB, TNC-female connectors

**RAVLA-21-L1L2-N**

L1/L2, 20 dB N-female connectors

## Suggested RF Amplifier Configurations by Cable Type/Length

### LMR400

- Antenna → 40'-150' LMR400 → GPS
- Antenna → LMR400 pigtail (< 3 feet) → 12db amplifier → 260'-380' LMR400 → GPS
- Antenna → LMR400 pigtail (< 3 feet) → 20db amplifier → 410'-530' LMR400 → GPS
- Antenna → LMR400 pigtail (< 3 feet) → 30db amplifier → 600'-720' LMR400 → GPS

### LMR600

- Antenna → 60'-250' LMR600 → LMR400 pigtail (< 3 feet) → GPS
- Antenna → LMR400 pigtail (< 3 feet) → 12db amplifier → 400'-580' LMR600 → LMR400 pigtail (< 3 feet) → GPS
- Antenna → LMR400 pigtail (< 3 feet) → 20db amplifier → 640'-820' LMR600 → LMR400 pigtail (< 3 feet) → GPS
- Antenna → LMR400 pigtail (< 3 feet) → 30db amplifier → 930'-1100' LMR600 → LMR400 pigtail (< 3 feet) → GPS

### LDF-4.5

- Antenna → LMR400 pigtail (< 3 feet) → 70'-350' LDF-4.5 → LMR400 pigtail (< 3 feet) → GPS
- Antenna → LMR400 pigtail (< 3 feet) → 12db amplifier → 600'-900' LDF-4.5 → LMR400 pigtail (< 3 feet) → GPS
- Antenna → LMR400 pigtail (< 3 feet) → 20db amplifier → 1000'-1300' LDF-4.5 → LMR400 pigtail (< 3 feet) → GPS
- Antenna → LMR400 pigtail (< 3 feet) → 30db amplifier → 1500'-1700' LDF-4.5 → LMR400 pigtail (< 3 feet) → GPS

## Lightning Protectors

Where a GPS antenna is exposed to sources of electromagnetic discharge such as lightning, install a properly grounded in-line electrical surge suppressor between the GPS receiver and antenna. Install protective devices in compliance with local regulatory codes and practices. Protective devices must pass DC power from the receiver to the antenna.



**H+S3402.17.0070**  
Coarse, w/ Gas Capsule.  
N-female connectors



**H+S9071.99.0547**  
Capsule, 230V



**H+S3403.17.0045**  
Fine, w/ Gas Capsule.  
N-female connectors



**H+S9071.99.0548**  
Capsule, 90V

## Signal Splitters



**GPNLDCBS1X2-T**  
GPS Signal Splitter

## C-Nav Antenna Mounting Hardware

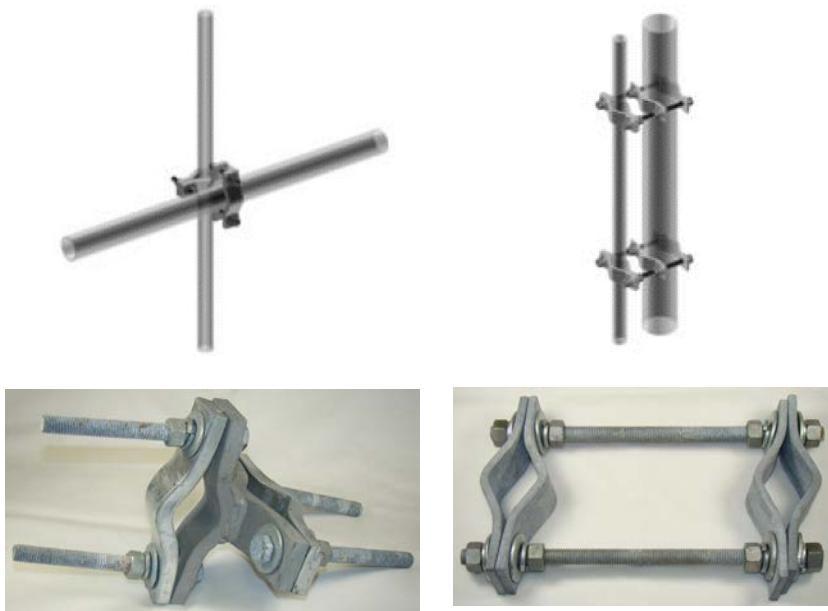
### Antenna Mounting Pipes and Adapters



**WES534610**  
12" Antenna Pole, Stainless Steel

**3250005-0**  
C-Nav2050 Antenna Mounting Pole Adaptor

### Pipe Clamps and Fasteners



**ANDCC-100**  
Crossover Clamp, Welded  
Half-Clamp  
Fits 1-1/2" to 2-1/2" Pipe

**ANDBC-20-10**  
Pipe-to-Pipe Antenna Pole  
Mounting Clamp, 2 per kit  
Fits 1-1/2" to 2-1/2" Pipe



**MAXMMK4**  
Pipe-to-Pipe Mounting Kit  
2 per kit  
Fits up to 2-1/2" Pipe

## Electrical/Power Equipment

### Power Cords and Cables



**4000001-110**  
Power Cord, IEC320-C13  
US, Standard Computer Type



**4250011-110**  
Power Cord IEC320-C7  
US, Shotgun Style Termination



**4000002-220**  
Power Cord, IEC320-C13  
EURO, Standard Computer Type



**4250012-220**  
Power Cord, IEC320-C7  
EURO, Shotgun Style Termination



**4000003-240**  
Power Cord, IEC320-C13  
UK, Standard Computer Type



**4250013-240**  
Power Cord, IEC320-C7  
UK, Shotgun Style Termination

### Uninterrupted Power Supplies



**1000013-0**  
Belkin UPS, 650 VA, 360W



**TRIOMNIVS1500XL**  
Tripp-Lite Omnivis UPS



**ALFDDI24-12 036-M**  
Alfatronix Voltage  
Converter  
12VDC Output

## Data Equipment

### Data Cable



**BEL8723**

Data Cable, 4 Conductor  
*Specify length when ordering*



**QVSCC317-06**

Data Cable, DB9P-DB9S, 6'

**QVSCC317-35**

Data Cable, DB9P-DB9S, 35'

### Data Switches and Serial Splitters



**OVEUPC-3002-SLS**  
Serial Line Splitter

DC: 2 x 10-30Vdc. Switches to B when A loses power.  
In: 2 x RS-232/422. Switches to B when A goes idle.  
Out: 6 x RS-422



**OVEUPC-3005-SLS**  
Serial Line Splitter

DC: 1 x 10-30Vdc.  
In: 1 x RS-232/422  
Out: 3 x RS-232, 5 x RS-422



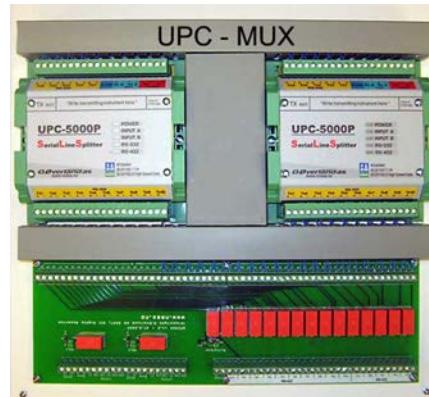
**OVEUPC-5000P**

Serial Line Splitter/Fallback

DC: 2 x 10-30Vdc. Switches to B when A loses power.

In: 2 x RS-232/422. Switches to B when A goes idle.

Out: 5 x RS-232, 10 x RS-422



**OVEUPC-MUX**

GPS/Gyro Multiplexer

DC: 2 x 10-30Vdc.

In: 2 x RS-232/422. Switches to B when A goes idle

Out: 5 x RS-232, 10 x RS-422



**NOLDX28**

Serial Line Splitter/Fallback

DC: 1 x 10-30Vdc.

In: 2 x RS-232/422. Switches to B when A goes idle

Out: 1 x RS-232, 4 x RS-422

## Converters



**B+B232PTC9**  
RS-232 Port Combiner  
*Used to operate one C-Nav2050  
with dual controllers*



**MOXJOD-41U-47**  
120VAC to 12vDC PSU  
*Use with MOXTCC-80I*



**B+B9POP4**  
RS-232 Optical Isolator



**MOX5410**  
Serial to Ethernet Converter  
*Available with 1, 2, 4 (shown)  
8 or 16 Serial Ports*



**MOXTCC-80I**  
RS-232 to RS-422 Converter  
Port or External Power



**QVSMDVI-C5**  
DVI Extender  
*Converts DVI to Cat. 5*

## Software

### C-Monitor

C-Monitor is a Windows application for monitoring and evaluating real-time DGPS QA/QC and Precise Point Positioning Information. C-Monitor Supports the observation and analysis of one or more differential GPS systems. C-Nav's proprietary C-Monitor Software; taking the uncertainty out of your positioning requirements:

- ✓ Full QA/QC utilities, tests and statistical analysis
- ✓ User-friendly interface for easy configuration and display of data
- ✓ Navigation display with Vessel gyro input and navigation waypoints
- ✓ Visible Satellite status showing azimuth, elevation and signal strengths
- ✓ Data logging feature for detailed analysis and replay
- ✓ Supports the entire line of C-Nav devices and data services

#### **CNVC-MONITOR KIT**

Includes C-Monitor Software, License and Dongle

#### **CNVC-MONITOR SW**

C-Monitor Software and License Only

### C-Scape



C-Scape is a Windows application designed to provide independent real-time monitoring of any Dynamic Positioning System giving users unprecedented positioning confidence and situational awareness at sea:

- ✓ Blends multiple sensor inputs for unparalleled position QA/QC.
- ✓ Fully compatible with the latest in positioning technology, the C-Nav3050 & C-Nav7000 DGNSS receivers.
- ✓ Suitable for dynamically positioned vessels including drilling rigs and drilling ships
- ✓ Intuitive and easy to use interface
- ✓ Compatible with DXF object and MMS data file overlays

#### **CNVC-SCAPE KIT**

Includes C-Scape Software, License and Dongle

#### **CNVC-SCAPE SW**

C-Scape Software and License Only

#### **CNVC-SCAPE MMS**

C-Scape MMS Overlay Option

## PC Hardware

### Microsoft Windows & Office Software



**MSFOFFICE2007**  
Microsoft Office Basic 2.0



**MSFXPPRO**  
Windows PC Operating System

### Personal Computer Hardware



**NEX3150E**  
Computer, Fanless, Celeron 1.6GHz  
1GB RAM, 160GB HDD, 4 x RS-232, DVD-ROM



**SAM204B**  
20" LCD Display  
*Other sizes available upon request*



**CHEG84-4420**  
PC Keyboard w/ Integrated Trackball  
PS2 connection



**IKYDW-860**  
Keyboard w/ Pointing Device  
Wireless (USB Dongle), NEMA 4X  
*View full line of industrial keyboards at:  
[www.ikey.com](http://www.ikey.com)*

## C-Nav GPS Installation Kit

The C-Nav GPS Installation Kit provides enough equipment to facilitate the interconnection and operation of one C-Nav3050, C-Nav2050 or C-Nav1010 system.



**RALAIM-409709M**  
D-sub Connector, DB9P (1)



**HISEMB-75**  
3M Mastic Tape (2 pieces)



**NEW09WX9972**  
DB9P Hoods w/ Thumbscrew (1)



**DIXHS-80**  
Hose Clamp, Worm Gear (3)



**TMWTC-400-TM**  
TNC Connectors for LMR400 (2)



**BEL8723**  
4 Conductor Data Cable, 10m



**HAIHP14CT-B**  
Tie Wraps, 14" (100)

and

**HAIHP11CT-B**  
Tie Wraps, 11" (50)

and

**HAIHP8CT-B**  
Tie Wraps, 8" (50)

and

**HAIHP6CT-B**  
Tie Wraps, 6" (50)



**SHAINT-620**  
Electrical Tape, Black (1)

## Miscellaneous



**PLU2X55-PP-3MIL**

Packing Tape  
3mil, w/ C-Nav Logo



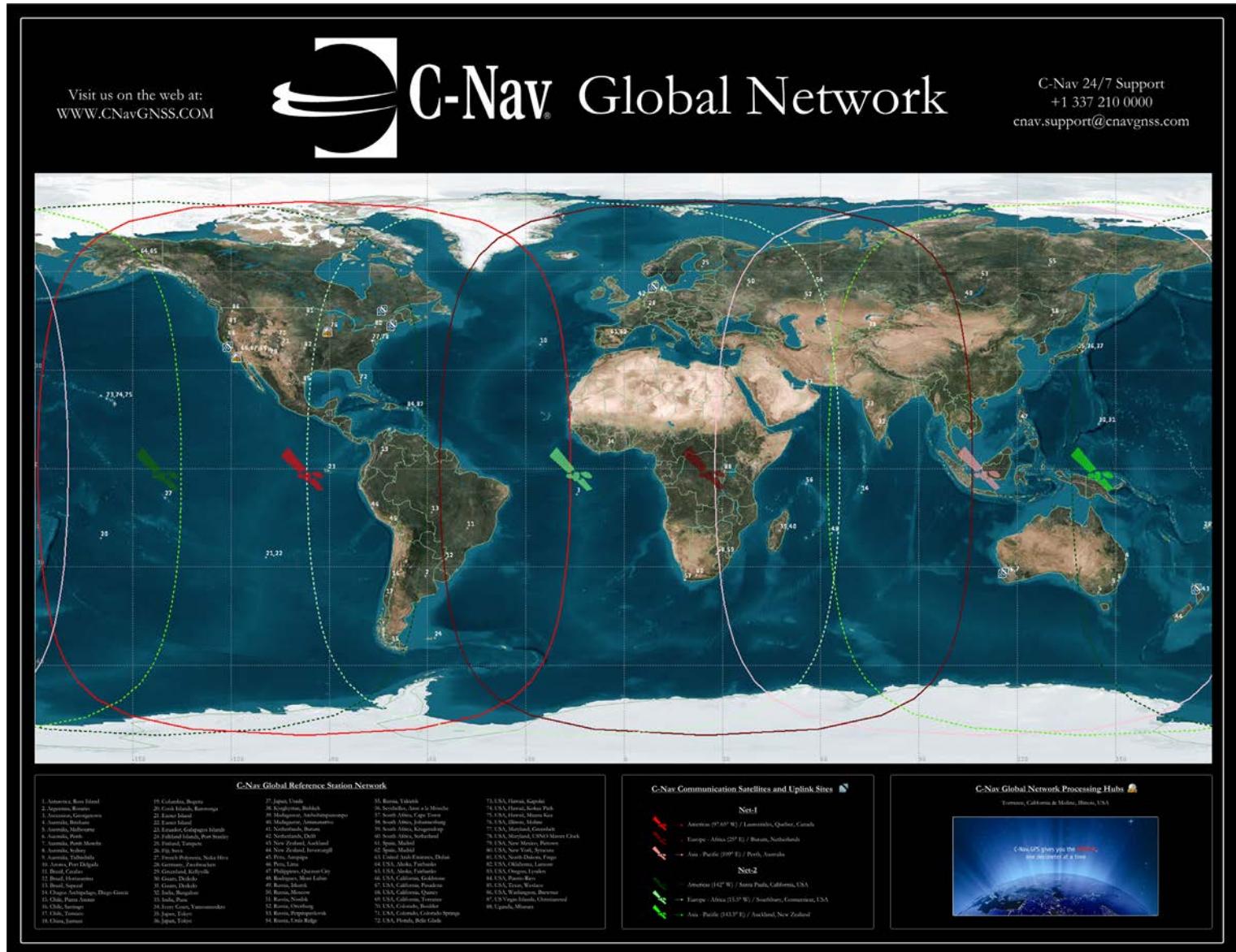
**MAPU2**

19" Rack Shelf, 2U

## C-NavC<sup>1</sup> and C-NavC<sup>2</sup> Correction Services

The C-NavC<sup>1</sup> and C-NavC<sup>2</sup> Correction Services are fully redundant systems that use two separate networks of geostationary satellites to broadcast corrections for worldwide coverage. C-Nav differential corrections are broadcast globally, thus no local reference stations or post-processing techniques are required to obtain this exceptional accuracy, even in the offshore environment. On land or at sea, C-Nav takes the uncertainty out of your positioning requirements. For more information on C-Nav products and services, visit: [www.cnavgnss.com](http://www.cnavgnss.com)

The following coverage map defines the optimum usage areas for C-Nav Receivers and Antennas.



## C-Nav Receiver Comparison Chart and Legacy Products

C-Nav Product Line - Hardware		C-Nav1000	C-Nav1010	C-Nav2050	C-Nav3050
					
<b>GNSS Capabilities</b>					
GPS L1	X	X	X	X	X
GPS L2				X	X
GPS L2C					X
GLONASS (G1, G2)					X
GALILEO (E1, E5A)					X (hardware-ready)
<b>GNSS Option Details</b>					
StarFire					
SBAS	Std	Std	Std	Std	Std
IALA	Std	Ext	Ext	Ext	Ext
UHF	Ext	Ext	Ext	Ext	Ext
<b>Accuracy (RMS, unless otherwise stated)</b>					
GPS Accuracy	H: < 5m (95% confidence)	#	#	#	#
DGPS Accuracy	H: < 2m (95% confidence)	H: < 1 m V: < 2 m	#	H: < 50 cm V: < 70 cm	H: +/- 30cm V: +/- 60cm
SBAS Accuracy	H: < 2m (95% confidence)	H: < 1 m V: < 2 m	w/ SBAS IONO H: < 50 cm V: < 1 m w/o SBAS IONO H: < 1 m V: < 2 m	H: < 10 cm V: < 15 cm	H: +/- 10cm V: +/- 15cm
C-Nav Correction Service Accuracy	N/A	N/A	N/A	< 10 km H: < 1 cm V: < 2 cm	< 40km H: +/- 1cm +/- 0.5ppm V: +/- 2cm +/- 1ppm
RTK	N/A	N/A	N/A	< 10 km H: < 2 cm V: < 4 cm	H: +/- 3cm +/- 1ppm V: +/- 6cm +/- 2ppm
C-Nav RTK-Extend (loss of corrections for <= 15 min)	N/A	N/A	N/A	N/A	N/A
Static	N/A	N/A	N/A	N/A	N/A
<b>Certifications</b>					
Wheelmark	X			X	X
MIL-STD-810F			X	X	X
U.S. Coast Guard	X			X	X
International Maritime Organization	X			X	X
International Electrotechnical Commission	X			X	X
FCC Part 15 Class B, CE			X	X	X
<b>Specifications</b>					
Internal Memory	N/A	N/A	64MB	2GB	
Communication Ports **	3x Serial (RS-422)	1x Serial (RS-232) 1x Serial (RS-232/RS-422 configurable)	2x Serial (RS-232)	1x RS-232, LAN/Serial 1x RS-232/422 USB/Serial Bluetooth	
Dimensions	Display: W: 270mm x H: 207mm x D: 102mm GPS: W: 128mm x H: 137mm x D: 39mm	W: 200mm x H: 120mm x D: 65mm	W: 209mm x H: 144mm x D: 78mm	W: 164mm x H: 117mm x D: 80mm	
Weight	Display: 1.1kg / GPS: 0.5kg	1.5kg	1.81kg	0.5kg	
External Power Input	24 VDC	9 to 36 VDC	10 to 30 VDC	9 to 32 VDC	
Power Consumption	Display: 8.4W / GPS: 2.7W	< 8W	< 8W	6W typical	
CAN Bus/Event	Event Marker	1PPS	1PPS / Event Marker	1PPS / Event Marker	
Configurable Data Rates	1, 5, 10 Hz	1, 5, 10, 50 Hz	1, 5, 10, 25, 50 Hz	1, 5, 10, 25, 50, 100 Hz	
Tracking Channels	12	14 (2 for SBAS)	24 (2 for SBAS)	66	
Operating Temperature	-15 to 55 degrees Celsius	-40 to 55 degrees Celsius	-40 to 55 degrees Celsius	-40 to +70 degrees Celsius	
<b>Dynamics</b>					
Acceleration	#	4g	8g	8g	
Speed	#	< 1000 knots (515 m/s)	< 1000 knots (515 m/s)	< 1000 knots (515 m/s)	
Altitude	#	< 80,000 ft (18.3km)	< 80,000 ft (18.3km)	< 80,000 ft (18.3km)	
<b>Additional Features</b>					
Total Network Redundancy	N/A	X	X	X	
High-latitude ant. Option	N/A	X	X	X	
NCT Binary Proprietary Output	N/A	X	X	X	
NMEA Data output	X	X	X	X	
Airborne Antenna Option	N/A	X	X	X	
Dual Data Interface Cable/Adapter	N/A	X	X	X	
Online monitoring of QC data*	X	X	X	X	
Target monitoring*	X	X	X	X	
Data logging*	X	X	X	X	
Navigation functionality*	X	X	X	X	
Satellite prediction*	X	X	X	X	

\*When used in conjunction with C-Nav Software or CDU (C-Setup, C-Monitor, C-NaviGator CDU)

\*\*External RS-232/422 to E-Net converter available

[www.cnavgps.com/satellite\\_calculator](http://www.cnavgps.com/satellite_calculator)

# Currently unavailable

## C-Nav2050 Bundles

### 025G001-0 - C-Nav2050G Bundle

925G001-0	1 x C-Nav2050G GPS Receiver
8250001-0	1 x C-Nav2050 L1/L2/L-Band Antenna
3250012-0	1 x 12VDC/2A PSU (LEMO)
WES534610	2 x 12" Antenna Pole
3250004-0	1 x C-Nav2050 Rugged Trans. Case
3250005-0	1 x Ant. Mount. Adap. 3/4 to 5/8"
4250001-12	1 x Antenna Cable, 12', TNC-TNC-RA
4250003-6	1 x C-Nav2050 Serial Cable
4250004-0	1 x C-Nav2050 Dual Data Cable
4250011-110	1 x Power Cord, IEC320-C7 (US)
4250012-220	1 x Power Cord, IEC320-C7 (EURO)
4250013-240	1 x Power Cord, IEC320-C7 (UK)
5250001-XX	1 x C-Nav2050 Operation Manual
6000001-XX	1 x Product CD
NAV97-310041-3010	1 x Position Update Rate (< 5Hz)
NAV97-310041-3011	1 x Raw Data Update Rate (< 5Hz)

### 025G002-0 - C-Nav2050G Bundle w/ C-NaviGator II CDU

025G001-0	1 x C-Nav2050G Bundle
0CNG001-1	1 x C-NaviGator II CDU Bundle (see page 18)

### 025M001-0 - C-Nav2050M Bundle

925M001-0	1 x C-Nav2050M GPS Receiver
8250001-0	1 x C-Nav2050 L1/L2/L-Band Antenna
3250012-0	1 x 12VDC/2A PSU (LEMO)
WES534610	2 x 12" Antenna Pole
3250004-0	1 x C-Nav2050 Rugged Trans. Case
3250005-0	1 x Ant. Mount. Adap. 3/4 to 5/8"
4250001-12	1 x Antenna Cable, 12', TNC-TNC-RA
4250003-6	1 x C-Nav2050 Serial Cable
4250004-0	1 x C-Nav2050 Dual Data Cable
4250011-110	1 x Power Cord, IEC320-C7 (US)
4250012-220	1 x Power Cord, IEC320-C7 (EURO)
4250013-240	1 x Power Cord, IEC320-C7 (UK)
5250001-XX	1 x C-Nav2050 Operation Manual
6000001-XX	1 x Product CD

4250006-3	1 x C-Nav2050M/R 1PPS Cable
4250007-3	1 x C-Nav2050M/R Event Marker
6250003-10	1 x C-Nav2050 POSN (10 Hz)
6250002-25	1 x C-Nav2050 RAW (25 Hz)

1 x C-Nav2050M/R 1PPS Cable
1 x C-Nav2050M/R Event Marker
1 x C-Nav2050 POSN (10 Hz)
1 x C-Nav2050 RAW (25 Hz)

### 025M002-0 - C-Nav2050M Bundle w/ C-NaviGator II CDU

Consisting of:	
025M001-0	1 x C-Nav2050M Bundle
0CNG001-1	1 x C-NaviGator II CDU Bundle (see page 19)

### 025R001-0 - C-Nav2050R Bundle

925R001-0	1 x C-Nav2050R GPS Receiver
8250001-0	1 x C-Nav2050 L1/L2/L-Band Antenna
NAV82-001003-0001	1 x C-Nav2050R L-band Antenna
3250012-0	1 x 12VDC/2A PSU (LEMO)
3250004-0	1 x C-Nav2050 Rugged Trans. Case
3250005-0	2 x Ant. Mount. Adap. 3/4 to 5/8"
4250001-12	1 x Antenna Cable, 12', TNC-TNC-RA
4250003-6	1 x C-Nav2050 Serial Cable
4250004-0	1 x C-Nav2050 Dual Data Cable
4250011-110	1 x Power Cord, IEC320-C7 (US)
4250012-220	1 x Power Cord, IEC320-C7 (EURO)
4250013-240	1 x Power Cord, IEC320-C7 (UK)
5250001-XX	1 x C-Nav2050 Operation Manual
6000001-XX	1 x Product CD
WES534610	4 x 12" Antenna Pole
4250006-3	1 x C-Nav2050M/R 1PPS Cable
4250007-3	1 x C-Nav2050M/R Event Marker
6250003-10	1 x C-Nav2050 POSN (10 Hz)
6250002-25	1 x C-Nav2050 RAW (25 Hz)
NAV94-310261-3012	1 x Cable, Antenna, 12'

### 025R002-0 - C-Nav2050R Bundle w/ C-NaviGator II CDU

025R001-0	1 x C-Nav2050R Bundle
0CNG001-1	1 x C-NaviGator II CDU Bundle (see page 19)

## Receivers



**925G001-0**  
C-Nav2050G GPS  
Receiver



**925M001-0**  
C-Nav2050M GPS  
Receiver



**925R001-0**  
C-Nav2050R GPS  
Receiver

This model is designed for:

- ✓ Geographic Information System Data Acquisition
- ✓ Aerial/LiDAR Surveying
- ✓ Hydrographic Surveying
- ✓ Post-processed Dual-frequency Surveys
- ✓ Real-time Positioning Applications

The receiver can be carried in a backpack with the antenna pole-mounted from the backpack or mast-mounted for marine/offshore use.

This model is designed for:

- ✓ Agriculture
  - ✓ Mining
  - ✓ Aerial Surveying
  - ✓ Hydrographic Surveying
- In addition, it is equipped with:
- ✓ A 1PPS output port
  - ✓ A combined Event/CAN Bus interface port
  - ✓ A variety of purpose-built antennas

### For use at high latitudes

This model is the same as the M model, except that it is designed for vehicle mounting with separate antennas for GPS/SBAS (WAAS, EGNOS, MSAS, GAGAN) (P/N: 8250001-0) and C-Nav Corrections Service Signals (P/N: 825R003-0). The purpose of the separate antenna systems is to provide better low-elevation satellite detection to C-Nav signals in high-latitude locations

## C-Nav2050 Parts and Accessories

### Antennas



**8250001-0**  
L1/L2/L-band Antenna



**NAV82-001003-0001LF**  
L-band Antenna for use at High Latitudes  
*For use with R-model only*



**8250002-0**  
L1/L2/L-band Antenna  
Airborne

### Cables



**4250001-12**  
Antenna Cable  
RG-58, TNC-TNC Right Angle, 12'



**NAV94-310261-3012LF**  
Antenna Cable  
RG-58, TNC-TNC, 12'



**4250003-6**  
Serial Cable  
7-Pin LEMO to DB9S, 6'



**4250004-0**  
Dual Data Cable  
7-Pin LEMO to DB9 - DTE/DCE



**4250005-10**  
Power Cable  
4-Pin LEMO to Untermminated, 10'



**4250006-3**  
1PPS Cable  
RG-58, BNC-m to BNC-m, 3'  
*For use with M/R Models only*



**4250007-3**  
Event Marker  
3' LEMO to Untermminated  
*For use with M/R Models only*



**4000011-110**  
Power Cord, IEC320-C7  
US, Shotgun Style Termination



**PRE2025**  
Isolation Mount Adaptor



**4000012-220**  
Power Cord, IEC320-C7  
EURO, Shotgun Style Termination



**WES534610**  
Antenna Mounting Pole



**4000013-240**  
Power Cord, IEC320-C7  
UK, Shotgun Style Termination



**3250012-0**  
Power Supply, AC/DC  
100-240VAC, 12VDC, 2A

## Miscellaneous



**3250004-0**  
Rugged Transportation Case



**5250001-XX**  
User Guide



**3250005-0**  
Antenna Mounting Adaptor  
1"-14 UNS-2B to 5/8" BSW



**6000001-XX**  
C-Nav All-in-One Product CD

## SF-2040G Bundle

### **NAV92-310055-3001 – SF-2040G Kit**

NAV92-310045-3001 SF-2040G Receiver  
 NAV59-020106-3001 SF-2040G Battery  
 NAV79-100100-0001 SF-2040G Carrying Case  
 NAV92-310046-3001 SF-2040G 4-Bay Batt. Charger  
 NAV94-310090-3003 SF-2040G 6' Serial Cable  
 NAV96-310003-3001 SF-2040G User Manual  
 NAV96-310006-3001 SF-2040G Documentation CD

## SF-2040G Parts and Accessories



**NAV92-310045-3001**  
SF-2040G Receiver



**NAV92-310046-3001**  
4-Bay Battery Charger



**NAV59-020106-3001**  
Battery, Li-ion



**NAV82-020003-5001**  
Power Supply for Battery Charger



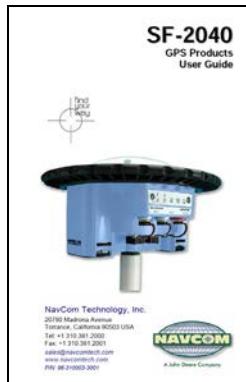
**NAV79-100100-0001**  
Ruggedized Transportation Case



**4250003-6**  
Data Cable  
LEMO 7-pin to DB9S, 6'



**3250012-0**  
Power Supply, AC/DC  
100-240VAC, 12VDC, 2A



**NAV96-310003-3001**  
User Guide



**NAV92-210182-3001**  
TruBlue Bluetooth® Transceiver